



Analytical Laboratory  
13339 Hagers Ferry Road  
Huntersville, NC 28078-7929  
McGuire Nuclear Complex – MG03A2  
Phone: 980-875-5245 Fax: 980-875-4349

## Job Summary Report

<b>Job Number:</b>	10-APR-0028
<b>Project Name:</b>	Miami-Fort NPDES Week 1
<b>Customer Name:</b>	J.R. Wood, Sue Wallace
<b>Copy To:</b>	
<b>Customer Address:</b>	Miami-Fort
<b>Lab Contact:</b>	Therona James
<b>Lab Contact Phone:</b>	980-875-4795

**Report Authorized By:**  
(Printed Name)

Therona James

**Report Authorized By:**  
(Signature)

*Therona James*

Date: 4/14/10

### Data Package

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical Laboratory with any questions. The order of individual sections within this report is as follows:

*Job Summary Report*  
*Analytical Laboratory Certificate of Analysis*  
*Analytical Laboratory QC Reports (if applicable)*  
*Sub-contracted Laboratory Results*  
*Customer Specific Data Sheets, Reports & Documentation (if applicable)*  
*Customer Database Entries*  
*Test Case Narratives*  
*Chain of Custody (COC)*



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## Job Summary Report

### Certification

The Analytical Laboratory holds the following Certifications:

*New York State Department of Health Certification # 11717(NELAC)*  
*North Carolina Department of Health & Human Services Certification # 37804*  
*South Carolina (DHEC) Laboratory ID # 99005*  
*North Carolina (DENR) Certification # 248*

Analytical results listed in this report may not be certified by the authorities referenced above. Contact the Analytical Laboratory for definitive information about the certification status of specific methods. The results meet all requirements of NELAC except where deviations are noted in this report.

### Data Flags

Any analytical tests or individual analytes within a test flagged with an "X" or a "1" indicate a deviation from the method quality system or quality control requirement.

### Calculations

All results are reported on a wet weight basis unless otherwise noted.

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### Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date	Collected By	Sample Description
30005478	MIAMI FORT	4/01/2010		OUTFALL 002
30005479	MIAMI FORT	4/06/2010		OUTFALL 608
<hr/>				
2 TOTAL SAMPLES				
<hr/>				

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i)	COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
ii)	All results are less than the laboratory reporting limits.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
iii)	All laboratory QA/QC requirements are acceptable.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
iv)	NPDES and TCLP results are below permit or regulatory limits respectively.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

[illegible]

- |                                     |   |                                     |  |
|-------------------------------------|---|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Job Summary Report                              | <input type="checkbox"/>            | Customer Specific Data Sheets, Reports & Documentation (if applicable) |
| <input checked="" type="checkbox"/> | Analytical Laboratory Certificate of Analysis   | <input type="checkbox"/>            | Customer Database Entries  |
| <input type="checkbox"/>            | Analytical Laboratory QC Report (if applicable) | <input type="checkbox"/>            | Test Case Narratives   |
| <input type="checkbox"/>            | Sub-contracted Laboratory Results               | <input checked="" type="checkbox"/> | Chain of Custody   |

- \_\_\_\_\_



MIAMI FORT

# Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

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Analytical Laboratory

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2 Samples

17 Tests

Included in this Report

Lab ID: 30005478 Sample Desc: OUTFALL 002

Sample Collected: 4/1/2010 08:52:00

Collected By:

Customer ID: WOOD / WALLACE

Date Initiated in Lab: 4/1/2010 08:26:49

**TOTAL DISSOLVED SOLIDS (EPA)**

Data Posted: 4/9/2010 12:53:03

Method: SM2540D

TDS 900 mg/L

Reporting LimitFlag

10

0

Lab ID: 30005479 Sample Desc: OUTFALL 608

Sample Collected: 4/6/2010 07:20:00

Collected By:

Customer ID: WOOD / WALLACE

Date Initiated in Lab: 4/1/2010 08:29:46

**ALKALINITY (FIXED END POINT 4.5)**

Data Posted: 4/8/2010 15:51:28

Method: SM2320B

ALKALINITY 960 mg-CaCO3/L

Reporting LimitFlag

0.10

0

**ARSENIC BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 14:24:17

Method: EPA 200.8/6020

ARSENIC &lt; 1.00 ug/L

Reporting LimitFlag

1.00

0

**BARIUM BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 16:36:41

Method: EPA 200.8/6020

BARIUM 5.50 ug/L

Reporting LimitFlag

1.00

0

**BORON BY ICP (DIGESTED)**

Data Posted: 4/13/2010 15:00:02

Method: EPA 200.7/6010B

BORON 293 mg/L

Reporting LimitFlag

5.00

0

**CADMIUM BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 14:24:17

Method: EPA 200.8/6020

CADMIUM &lt; 1.00 ug/L

Reporting LimitFlag

1.00

0

**CHLORIDE (IC)**

Data Posted: 4/8/2010 16:27:36

Method: EPA 300.0

CHLORIDE 5700 mg/L

Reporting LimitFlag

200

0

**CHROMIUM BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 14:24:17

Method: EPA 200.8/6020

CHROMIUM &lt; 1.00 ug/L

Reporting LimitFlag

1.00

0

**COPPER BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 14:24:17

Method: EPA 200.8/6020

COPPER &lt; 1.00 ug/L

Reporting LimitFlag

1.00

0

**FLUORIDE (IC)**

Data Posted: 4/8/2010 16:27:37

Method: EPA 300.0

FLUORIDE 27 mg/L

Reporting LimitFlag

10

0

**IRON BY ICP (DIGESTED)**

Data Posted: 4/13/2010 15:00:03

Method: EPA 200.7/6010B

IRON 0.153 mg/L

Reporting LimitFlag

0.0100

0



MIAMI FORT

# Certificate of Laboratory Analysis

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Analytical Laboratory

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**2 Samples****17 Tests**

Included in this Report

Lab ID: **30005479** Sample Desc: **OUTFALL 608**

Sample Collected: 4/6/2010 07:20:00

Collected By:

Customer ID: WOOD / WALLACE

Date Initiated in Lab: 4/1/2010 08:29:46

**LEAD BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 14:24:17

Method: EPA 200.8/6020

LEAD &lt; 1.00 ug/L

Reporting LimitFlag

1.00

0

**MANGANESE BY ICP (DIGESTED)**

Data Posted: 4/13/2010 15:00:03

Method: EPA 200.7/6010B

MANGANESE 0.174 mg/L

Reporting LimitFlag

0.00500

0

**SULFATE (IC)**

Data Posted: 4/8/2010 16:27:38

Method: EPA 300.0

SULFATE 15000 mg/L

Reporting LimitFlag

200

0

**TOTAL DISSOLVED SOLIDS (EPA)**

Data Posted: 4/13/2010 14:40:27

Method: SM2540D

TDS 36000 mg/L

Reporting LimitFlag

10

0

**TOTAL SUSPENDED SOLIDS (EPA)**

Data Posted: 4/12/2010 14:47:04

Method: SM2540D

TSS 15 mg/L

Reporting LimitFlag

4.0

0

**ZINC BY ICP-MS (DIGESTED)**

Data Posted: 4/9/2010 14:24:17

Method: EPA 200.8/6020

ZINC &lt; 2.00 ug/L

Reporting LimitFlag

2.00

0



# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Analytical Laboratory Use Only

Duke Energy Analytical Laboratory  
Mail Code MGO3A2 (Building 7405)  
13339 Hagers Ferry Rd  
Huntersville, N.C. 28078  
(704) 875-5245  
Fax: (704) 875-4349

13339 Hagers Ferry Rd  
Huntersville, N.C. 28078  
(704) 875-5245  
Fax: (704) 875-4349

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DISTRIBUTION  
ORIGINAL to LAB,  
COPY to CLIENT

Customer must Complete

1) Project Name <b>MIAMI-FORT NPDES Monthly (Monthly Sampling - April 6)</b>	2) Phone No:
3) Client <b>Miami-Fort - J.R. Wood, Sue Wallace</b>	4) Fax No:
5) Business Unit:	6) Process:
8) Project ID:	9) Activity ID:
	7) Resp. Center To:
	10) Mail Code:

LAB USE ONLY

11) Lab ID  
**30005478**  
**30005479**

Customer to complete appropriate columns to right

12) Chem Desktop No.	13) Sample Description or ID	14) Collection Information	15) Preservation	16) Analyses Required	17) Comp.	18) Grab	19) TDS	20) CI, F, SO4	21) As, Fe, Ba, B, Mn	22) Zn, Cd, Pb, Cr, Cu	23) TSS, Alkalinity
	Outfall 002	Date: 4/6/10 Time: 08:12	Signature: [Signature]	1=HCl, 2=H2SO4, 3=HNO3, 4=None, 5=None	X	X	X	X	X	X	X
	Outfall 608	Date: 4/6/10 Time: 07:20	Signature: [Signature]	1=HCl, 2=H2SO4, 3=HNO3, 4=None, 5=None	X	X	X	X	X	X	X

Customer to sign & date below - fill out from left to right:

1) Relinquished By [Signature] Date/Time: 4/6/2010 07:43	2) Accepted By [Signature] Date/Time: 4/6/10
3) Relinquished By [Signature] Date/Time: 4/7/10 10:30	4) Accepted By [Signature] Date/Time: 4/2/10 10:30
5) Relinquished By [Signature] Date/Time: 4/6/10	6) Accepted By [Signature] Date/Time: 4/2/10
7) Relinquished By [Signature] Date/Time: 4/6/10	8) Accepted By [Signature] Date/Time: 4/2/10
9) Seal/Locked By [Signature] Date/Time: 4/6/10 07:43	10) Seal/Lock Opened By [Signature] Date/Time: 4/7/10 10:45
11) Seal/Opened By [Signature] Date/Time: 4/6/10 07:43	12) Seal/Lock Opened By [Signature] Date/Time: 4/7/10 10:45

Customer, IMPORTANT!  
Please indicate desired turnaround.

22) Requested Turnaround  
14 Days \_\_\_\_\_  
7 Days \_\_\_\_\_  
48 Hr \_\_\_\_\_  
Other \_\_\_\_\_  
\* Add. Cost Will Apply